

In the claims:

Please amend claims 1, 5, 6, 10, and 16 as follows:

- Sub B1  
92
1. (Once Amended) A load coil for insertion along a local loop, the load coil comprising:  
2 a coupled inductor having first and second windings wrapped about an inductor core,  
3 each winding having an input and an output, the coupled inductor configured to counteract a  
4 parallel capacitance of the local loop to improve transmission of POTS-band signals across the  
5 local loop;  
6 a first capacitive element disposed between the input of the first winding and the input of  
7 the second winding; and  
8 a second capacitive element disposed between the output of the first winding and the output  
9 of the second winding, the first capacitive element and the second capacitive element configured to  
10 permit passage of DSL signals across the load coil.

- Sub B2  
93
5. (Once Amended) The load coil of claim 1, wherein the first and second windings have an  
2 inter-winding capacitance and the first and second capacitive elements increase the effective inter-  
3 winding capacitance of the first and second windings by at least a factor of 5.

B<sup>2</sup>  
93  
1 6. (Once Amended) A load coil for insertion along a local loop, the load coil comprising:  
2 a coupled inductor having first and second windings wrapped about an inductor core,  
3 each winding having an input and an output, the coupled inductor configured to improve  
4 transmission of POTS-band signals across the local loop;  
5 a first capacitive element disposed in parallel with the first winding; and  
6 a second capacitive element disposed in parallel with the second winding, the first capacitive  
7 element and the second capacitive element configured to permit passage of DSL signals across the  
8 load coil with low attenuation.

Sub  
C1  
94  
1 10. (Once Amended) The load coil of claim 6, wherein the first and second windings each have  
2 an intra-winding capacitance and the first and second capacitive elements increase the effective  
3 intra-winding capacitance of the first and second windings by at least a factor of 120.

Sub  
B4  
95  
1 16. (Once Amended) A load coil coupled to a local loop for improving simultaneous  
2 transmission of POTS and DSL signals across the local loop in any direction, the load coil  
3 comprising:  
4 inductive means for conditioning the POTS signals as they traverse the local loop; and  
5 capacitive means coupled to the inductive means for permitting the DSL signals to pass  
6 across the load coil.

Please add claims 18-23 as follows:

Sub B6 1 18. (New) A method for improving simultaneous transmission of POTS-band signals and DSL  
2 signals across a local loop, comprising the steps of:

3 inductively coupling a first segment of the local loop to a second segment of the local loop to

4 condition the POTS-band signals traversing the local loop; and

5 capacitively coupling the first segment of the local loop to the second segment of the local

96 6 loop to pass the DSL signals traversing the local loop with low attenuation.

1 19. (New) The method of claim 18, wherein the step of inductively coupling includes coupling a  
2 first wire of the first segment of the local loop to a first wire of the second segment of the local loop  
3 via a first inductor winding wrapped about an inductor core, and coupling a second wire of the first  
4 segment of the local loop to a second wire of the second segment of the local loop via a second  
5 inductor winding wrapped about the inductor core.

1 20. (New) The method of claim 18, wherein the step of capacitively coupling includes coupling a  
2 first wire of the first segment of the local loop to a second wire of the second segment of the local  
3 loop via a first capacitive element, and coupling a second wire of the first segment of the local loop  
4 to a first wire of the second segment of the local loop via a second capacitive element.

1 21. (New) The method of claim 18, wherein the step of capacitively coupling includes coupling a  
2 first wire of the first segment of the local loop to a first wire of the second segment of the local loop  
3 via a first capacitive element, and coupling a second wire of the first segment of the local loop to a  
4 second wire of the second segment of the local loop via a second capacitive element.

Sub B7  
22. (New) A system to improve simultaneous transmission of POTS-band signals and DSL signals across a local loop, the system comprising:

a first local loop, the first local loop including

a first wire, and

a second wire;

a second local loop, the second local loop including

a third wire, and

a fourth wire;

a coupled inductor configured to condition the POTS-band signals traversing the first and second local loops, the coupled inductor including

an inductor core,

a first inductor winding wrapped about the inductor core and coupling the first wire to the third wire, and

a second inductor winding wrapped about the inductor core and coupling the second wire to the fourth wire; and

capacitive elements configured to pass the DSL signals traversing the first and second local loops, the capacitive elements including

a first capacitor coupling the first wire to the fourth wire, and

a second capacitor coupling the second wire to the third wire.

23. (New) A system to improve simultaneous transmission of POTS-band signals and DSL signals across a local loop, the system comprising:

a first local loop, the first local loop including

a first wire, and

a second wire;

a second local loop, the second local loop including

a third wire, and

a fourth wire;

a coupled inductor configured to condition the POTS-band signals traversing the first and second local loops, the coupled inductor including

an inductor core,

a first inductor winding wrapped about the inductor core and coupling the first wire to the third wire, and

a second inductor winding wrapped about the inductor core and coupling the second wire to the fourth wire; and

capacitive elements configured to pass the DSL signals traversing the first and second local loops, the capacitive elements including

a first capacitor coupling the first wire to the third wire, and

a second capacitor coupling the second wire to the fourth wire.